## **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/28/99 Date Received: 09/02/99

Project: Metro Self Monitor, PO# M62543

Date Samples Extracted: 09/14/99

Date Extracts Analyzed: 09/20/99 & 09/22/99

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M62543	0.33	0.26	0.31	0.07
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

## **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/28/99 Date Received: 09/02/99

Project: Metro Self Monitor, PO# M62543

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 909015-01 (Duplicate)

				Relativ	e	
	Reporting	Sample	Duplicat	e Percen	t Acceptan	ice
Analyte	Units	Result	Result	Differen	ce Criteri	a
Chromium	mg/L (ppm)	< 0.05	< 0.05	nm	0-20	4.0
Copper	mg/L (ppm)	0.45	0.40	12	0-20	
Nickel	mg/L (ppm)	< 0.05	< 0.05	nm	0-20	
Zinc	mg/L (ppm)	1.0	1.0	0	0-20	

Laboratory Code: 909015-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery % Recov	ery Acceptance	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	< 0.05	116	114	80-120	2
Copper	mg/L (ppm)	5	0.45	102	99	80-120	3
Nickel	mg/L (ppm)	10	< 0.05	104	104	80-120	0
Zinc	mg/L (ppm)	5	1.1	106	106	80-120	0

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recov	ery Acceptanc	ce	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	)
Chromium	mg/L (ppm)	5	97	110	80-120	13	
Copper	mg/L (ppm)	5	107	103	80-120	4	
Nickel	mg/L (ppm)	10	99	111	80-120	11	
Zinc	mg/L (ppm)	5	95	119	80-120	22 v	)

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

DH 9-2-99 AI,

909005

# SAMPLE CHAIN OF CUSTODY

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08/26/99

## **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 28, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 2, 1999 from your Metro Self Monitor, PO# M62543 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Diannel Hout

Dianne C. Hurt Project Manager

Enclosures ACU0928R.DOC

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 28, 1999

### DUPLICATE COPY

## **INVOICE #99ACU0928-3**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M62543: Results of testing requested by Gerry Thompson for material submitted on September 2, 1999.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due \$ \$0.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID 7(b) (6)